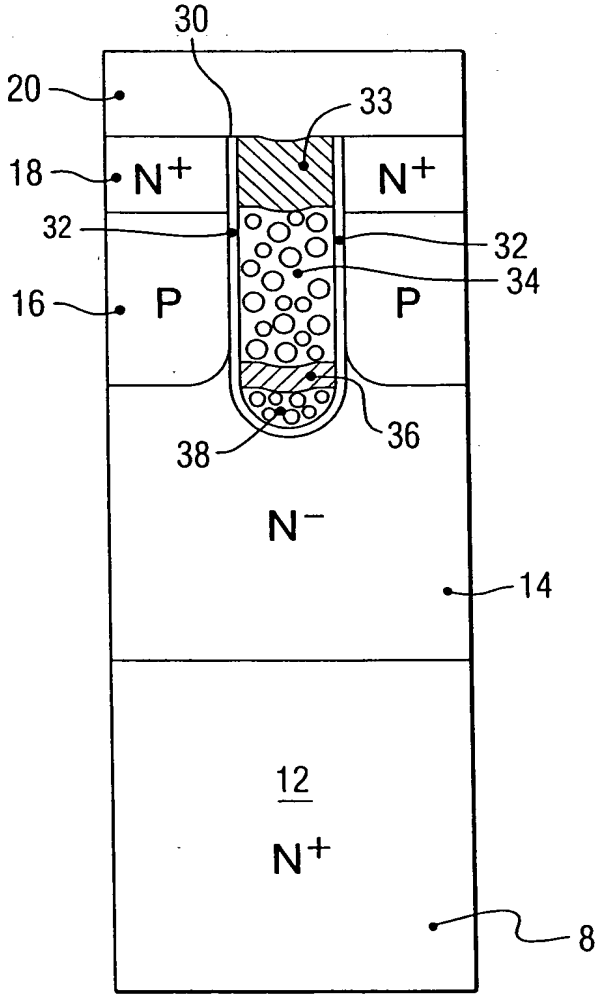

FIG. 1

	VTH (V)	RSP @ 10V (mohm.cm^2)	RSP @ 5V (mohm.cm^2)	VDSBR (V)	Cgd (pF/cm^2)	RSP* Cgd (mohm.pF)
CONV_2.0um	1.2	0.16	0.22	36.97	7050	1128
NEW _2.0um	1.22	0.19	0.26	37.58	1180	224.2
CONV_3.0um	1.17	0.21	0.29	37.33	4922	1033.62
NEW _3.0um	1.16	0.25	0.34	37.48	874	218.5
CONV_4.0um	1.13	0.27	0.46	39.97	3521	950.67
NEW _4.0um	1.13	0.32	0.54	40.08	635	203.2

FIG. 1A

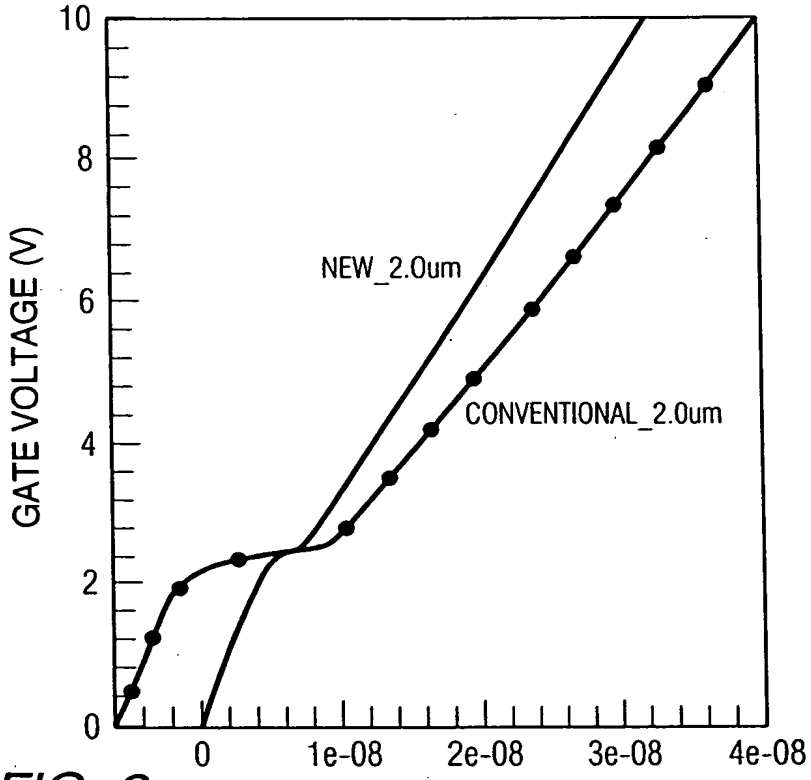
10
8
6
4
2
0
GATE VOLTAGE (V)
NEW_2.0um
CONVENTIONAL_2.0um
0
1e-08
2e-08
3e-08
4e-08
GATE CHARGE (COUL)

FIG. 2

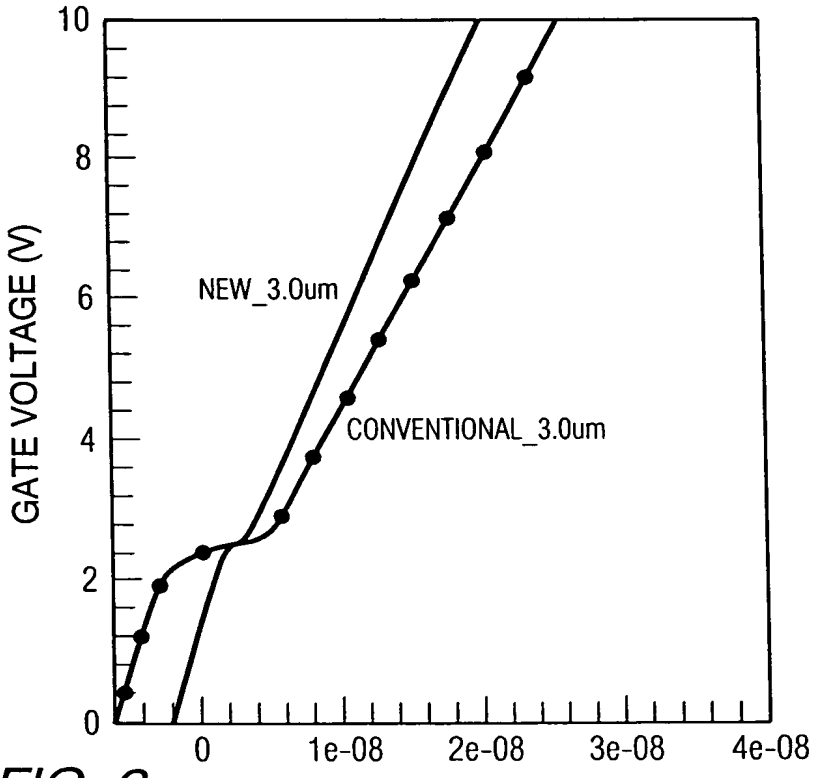
10
8
6
4
2
0
GATE VOLTAGE (V)
NEW_3.0um
CONVENTIONAL_3.0um
0
1e-08
2e-08
3e-08
4e-08
GATE CHARGE (COUL)

FIG. 3

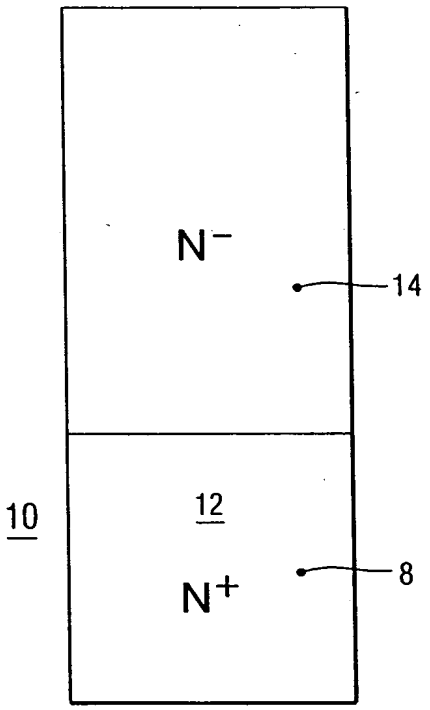

FIG. 4

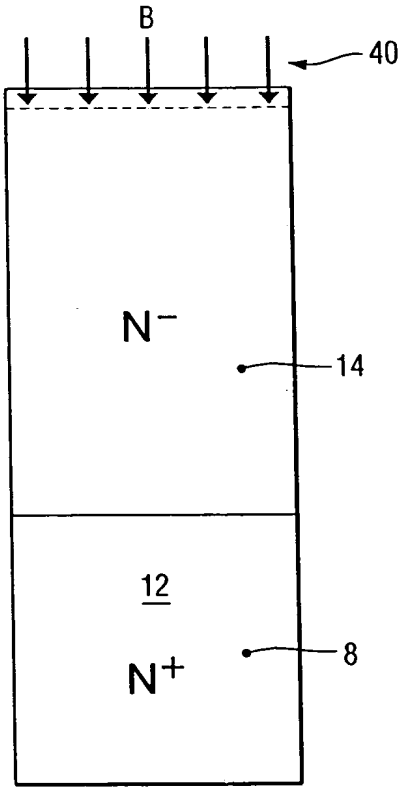

FIG. 5

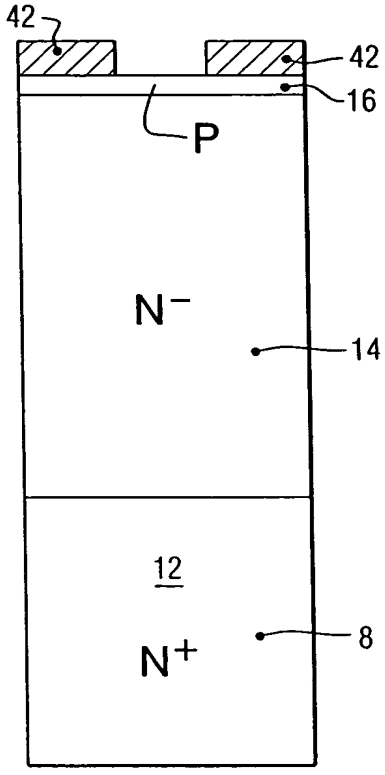

FIG. 6

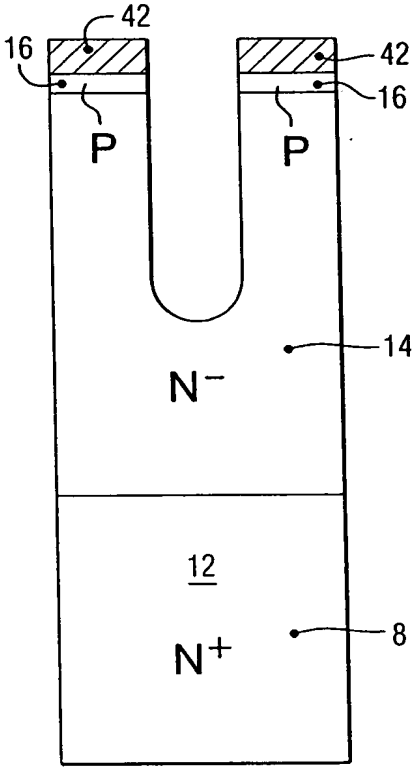

FIG. 7

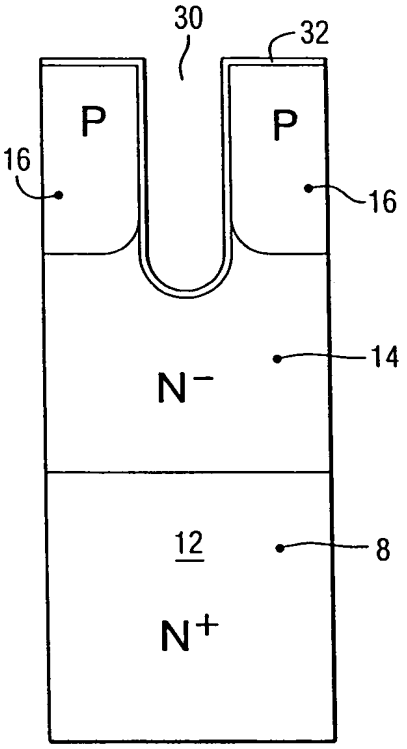

FIG. 8

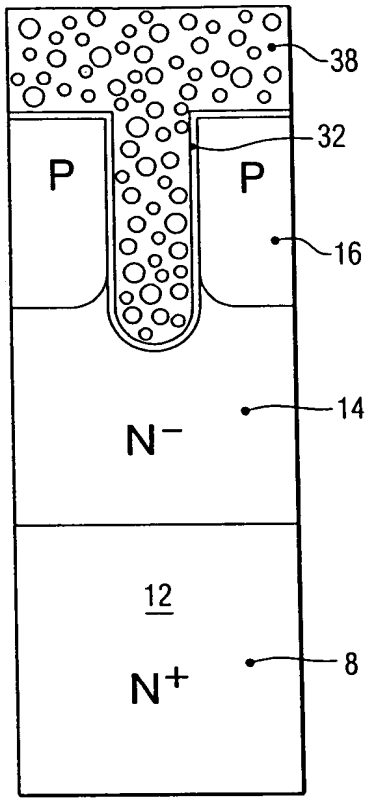

FIG. 9

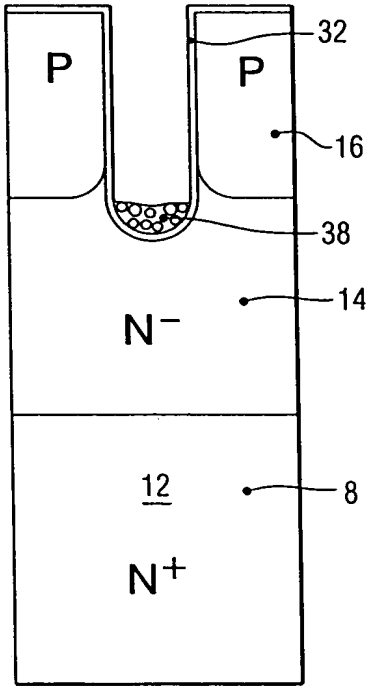

FIG. 10

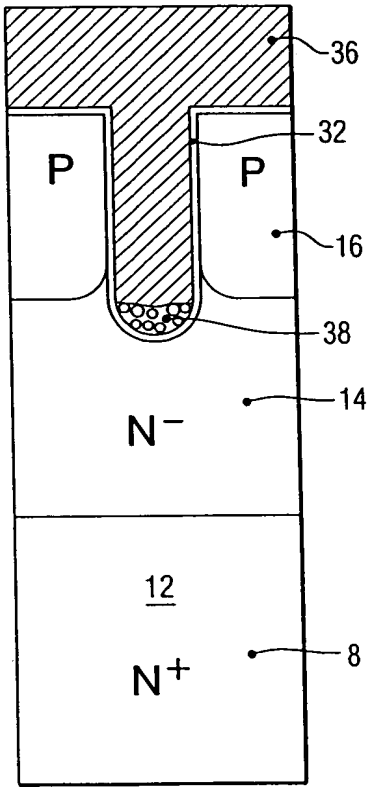

FIG. 11

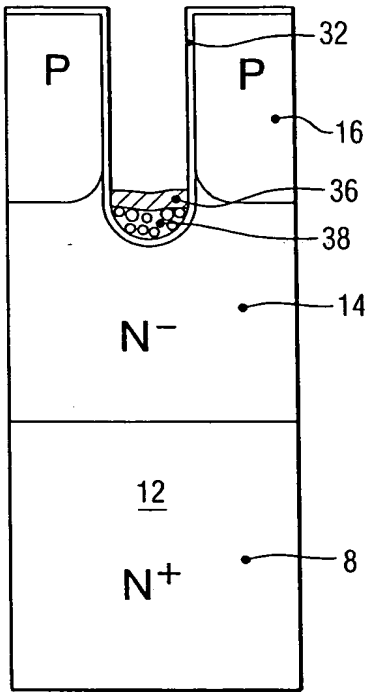

FIG. 12

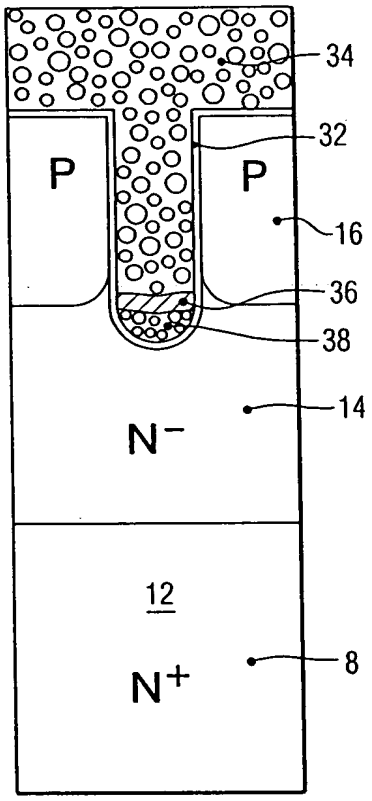

FIG. 13

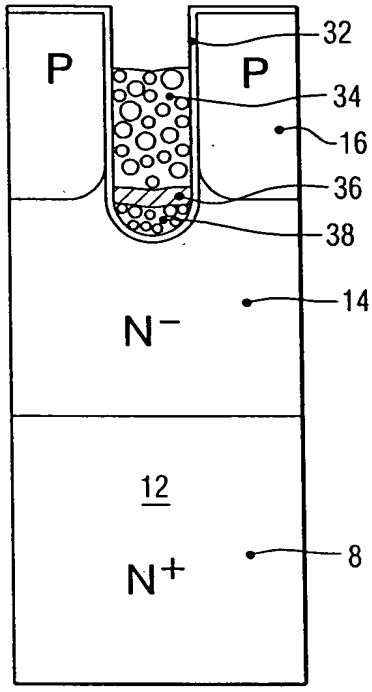

FIG. 14

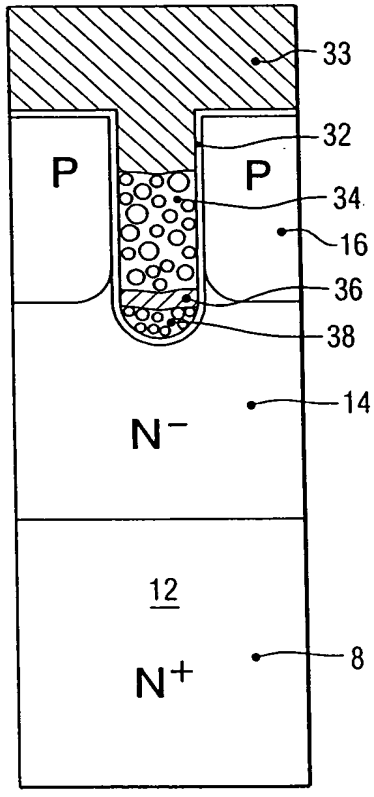

FIG. 15

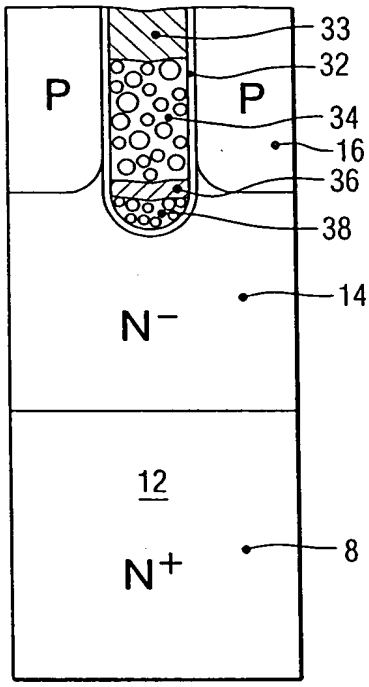

FIG. 16

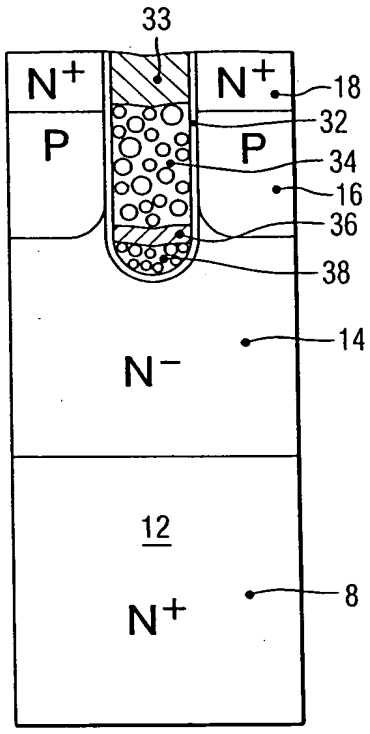

FIG. 17

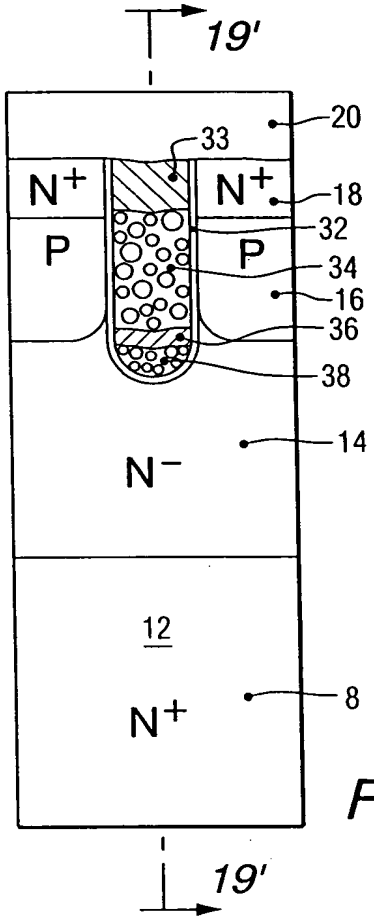

FIG. 18

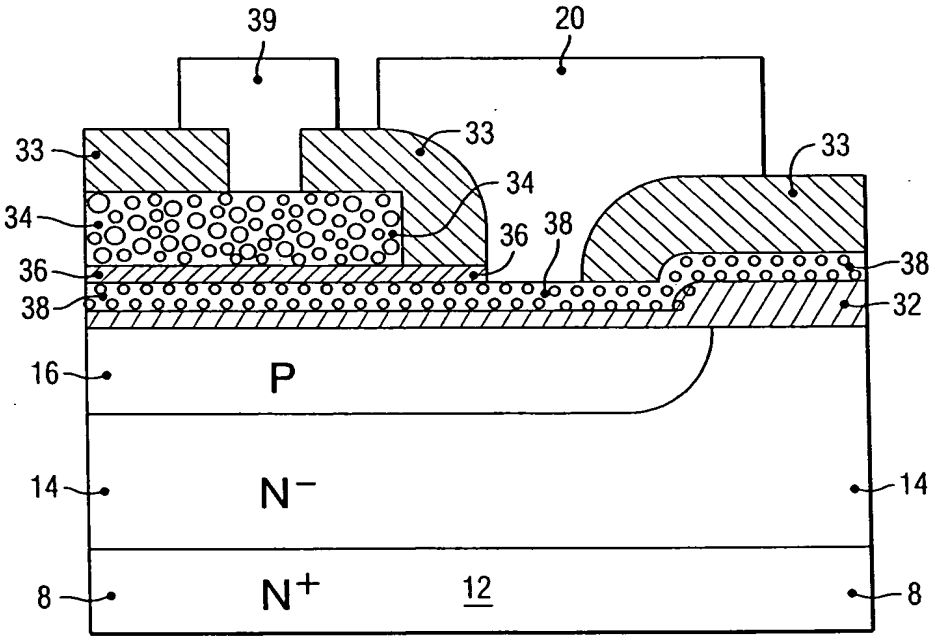

FIG. 19